<u>**SPECIFICATION AMENEMENTS:**</u>

Please amend the paragraph beginning at page 5, line 25 as follows:

Figure<u>s</u> 13<u>(a) and 13(b) are</u> ~~is a~~ visualisation<u>s</u> of the results of dilation in the course of the preferred process.

Please amend the paragraph beginning on page 14, line 11 as follows:

The histogram is zero-extended so that it runs from $-2^{n/2}$ to $2^{3n/2}$, where n is determined such that $2''$ is the smallest number of bins completely containing the histogram before zero extension. This is achieved by first extending the histogram until its number of bins is equal to 2^n and setting the new bins to zero, and then further extending the histogram by 50% on both sides so that it has 2^{n+1} bins and setting the new bins to zero. A set of n multi-resolution histograms is then formed by averaging groups of bins so that successive histograms have $2^2, 2^3, 2^4, \ldots 2^{n-1}$, $2^n, 2^{n+1}$ bins and the location of peaks and valleys determined by convolving with a [1-1] edge operator at every resolution and identifying changes of sign. Where the histogram is flat then the valley, if necessary, is right justified. The location of the peaks and valleys is then tracked through each resolution, the more resolutions in which it is located the higher the track length and the greater the perceived importance of the peak or valley. An example of this is shown in Figure<u>s</u> 8<u>(a)-8(f)</u> in which the main (or most important) peak is not the highest.